

Application for Coverage

Under the South Dakota Surface Water Discharge System Individual Permit for Biosolids Management

This form is provided by the Secretary of the South Dakota Department of Environment and Natural Resources in accordance with §74:03:18:09 of the Administrative Rules of South Dakota. Facilities must obtain a permit to manage biosolids (treated municipal sludge) or septage. Completion and submittal of this form is required to obtain coverage under a Biosolids Management permit.

Section A: Facility Information

The facility described below is involved in biosolids treatment/management activities and is applying for coverage under the South Dakota Surface Water Discharge System Individual Permit for Biosolids Management.

1.	Facility name:					
2.	Facility Address:					
3.	Facility Location:	Section	Township	Range		
		Latitude	Longitude			
4.	Facility Operator:					
5.	Operator Address:	Street			State	Zip Code
		Sueet			State	Zip Code
6.	Operator Telephone:		Fax			
7.	Operator e-mail (if available)					
8.	Billing Address:					
	•	Street or P.O. E			State	Zip Code
Ch	eck all boxes that apply in each	of the following	sections.			
9.	Ownership Status:	Name of Owner	r:			
		Federa	al		Special	District
		State			Public	
		Local	(County or city)		Private	
			Other:			

10.	is the f	acility or any associated management or	application s	site(s) on:
		Federal Land		
		Indian Land		
if ye	es, expla	in:		
11.	Facility	y Type:		
	Sev	vage Treatment Plant		
		Class I (facilities with industrial pr	etreatment pi	rograms or designated as Class I)
		Wet-weather design flow equal to	or greater tha	n 1 million gallons per day
		Serves 10,000 people or more		
		Design flow less than 1 million gal	llons per day	and serves less than 10,000 people
	Coı	mpost Facility		
	Sep	stage Management Facility		
	Ber	neficial Use Facility		
12.	What is	s the capacity of your facility?		
		wage treatment plants specify wet-weather facilities specify or estimate capacity		v in million gallons per dayecessary
Sec	tion B	: Facility Operations		
1.	Sewage	Treatment Facility:		
	a.	Pre-treatment	b.	Activated Sludge
		Settling basins		Normal activated
		Screening		Fine bubble
		Grinding		Pure oxygen activated
		Other:		Sequential batch reactors
				Oxidation ditch
				Carrousel
				Other:
	c.	Fixed Film	d.	Lagoons
		K.S. loaded trickling filters		Without aeration or recirculation
		Block media high air		Aerated without recirculation

	Rotating biological contactors			Aerated with recirculation
	Plastic media			Aerated settled
	Ordinary stones			Biolac system
	Recirculating gravel filters			Other:
	Other:			
6	e. Digestion	f.	Bios	solids Treatment/Management
	Aerobic			Drying beds
	Mixed aerobic/anaerobic			Belt-filter presses
	Anaerobic			Centrifuge
	Thermophilic			Composting
	Other:			Bagging
				Alkaline stabilization
				Polymer
				Heat Drying
				Heat Treatment
				Irradiation
				Pasteurization
				Other:
2. Septa	age Management Facilities			
(Composting			
I	Aeration			
S	Screening			
(Grinding			
I	pH adjustment			
(Other:	_		
1	None			

3.	Discuss any seasonal or operational variations that affect either the quality or quantity of biosolids/septage that is generated or managed:
4.	Topographic Map . Provide a topographic map or maps (or other appropriate map(s) if a topographic map is unavailable) that shows the following items of information. Map(s) should include the area one mile beyond all property boundaries of the facility:
	 Location of all biosolids management facilities, including locations where biosolids is stored, treated, or disposed.
	b. Location of all wells, springs, and other surface water bodies, listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundaries.
	Line Drawing . Provide a line drawing and/or a narrative description that identifies all biosolids processes that will be employed during the term of the permit, including all processes used for collecting, dewatering, storing, o treating biosolids, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.
5.	Contractor Information. Are any operational or maintenance aspects of this facility related to biosolids generation, treatment, use or disposal the responsibility of a contractor? Yes No
	If yes, provide the following for each contractor (attach additional pages if necessary):
	a. Name:
	b. Mailing Address:
	c. Telephone Number:
	d. Responsibilities of contractor:
Se	ction C: Biosolids Quantity & Quality
1.	Annual production of biosolids (based on a five-year average in dry tons):
2.	Amount of biosolids used during last calendar year (dry ton):
	Actual Estimated
3.	Amount of biosolids maintained in storage (dry tons):
	Actual Estimated

4.	Do you expect major changes in prod	auct quantities generated, used, or stored during the next five years?
	Yes No	
	If yes, explain:	
5.	If a septage management facility, wha	at types of sentage will you handle?
٠.	Class I	wypos or sopings min you name.
	Class II	
	Class III	
6.	Typical Biosolids constituent concent	trations (not applicable to contage):
0.		
	Average calculated from previous	
	Concentrations based on most rec	ent data.
	Other:	
	Constituent level in ppm (dry wei	ight basis):
	Arsenic	Nitrate Nitrogen
	Cadmium	Ammonia Nitrogen
	Copper	Total Kjeldahl Nitrogen
	Lead	Phosphate
	Mercury	% Total solids
	Molybdenum	% Volatile solids (% of total)
	Nickel	pH
	Selenium	
	Zinc	<u> </u>
7.	Indicate pathogen reduction class and analysis.	alternative employed. Note: All Class A alternatives require sampling and
	Class A – Alternative 1 <i>Time and</i>	d Temperature
	Class A – Alternative 2 Alkaline	stabilization
	Class A – Alternative 3 <i>Process</i>	verification
	Class A – Alternative 4 Batch ve	rification
	Class A – Alternative 5 <i>Process</i>	to Further Reduce Pathogens (PFRP)

Class A – Alternative 6 Equivalency determination

Class B – Alternative 1 Seven samples analyzed for fecal coliform

Class B – Alternative 2 Process to Significantly Reduce Pathogens (PSRP)

Class B – Alternative 3 Equivalency determination

Does not meet pathogen reduction requirements. If not, explain:

8. Indicate vector attraction reduction alternative employed.

38% volatile solids reduction, or

Bench sheet

Aerobic process with SOUR test

Aerobic treatment meeting time/temperature

pH adjustment

75% or greater solids content for biosolids containing only stabilized solids

90% or greater solids content for biosolids containing any unstabilized solids

Injection below the surface of the ground

Incorporation after application

9. You must submit the following data with your permit application:

Biosolids monitoring data (submit all available data for last two years)

Soils at application site (submit only if biosolids are not exceptional quality and the site is to be used again.)

Surface and groundwater monitoring data (submit only if biosolids are not exceptional quality)

You may provide your data in the following forms:

As an attachment to this application

Compiled in annual reports completed and submitted with this application

Include any site specific data with a related Site Specific Land Application Plan

10.	Do you cur	Do you currently transfer any biosolids to another facility for further treatment?								
	Yes	No								
	If yes, prov	vide: (attach additional sh	neets if more than	one)						
		Name of the facility:								
		Address: Street City State Zip Code								
		Operator Name:								
		Operator phone number	r:							
11.	Does your	facility receive biosolids	from another treati	ment works?						
	Yes	No								
	If yes, prov	ide: (attach additional sh	eets if needed)							
		Name of the facility:								
		Address:	Street	O'A-	State	7:- 0-1-				
		Nome of the facility		City		Zip Code				
		Name of the facility:								
		Address:	Street	City	State	Zip Code				
		Name of the facility:								
		Address:	Store et	C:t-	Chaha	7:- 0-1-				
			Street	City	State	Zip Code				
Sec	ction D:	Biosolids Beneficial	lly Used							
1.	Biosolids a	re:								
		Applied directly to the	land.							
		Sold or given away in:								
		Bulk								
		Small quantitie	es							
		Other:								

	Operator/contractor name				
	Address	Street	City	State	Zip Code
	Operator/Contractor phon	e:			
	Name of the facility/site:				
	Street		City	State	Zip Code
	Name of the facility/site:				
	Street		City	State	Zip Code
	Name of the facility/site:				
	Street		City	State	Zip Code
3.	Indicate land types or management scenduring the last calendar year:	narios you use, a	nd the amount of biosol	ids (dry tons) in ea	ach category
	Bulk to agricultural land_	(tot	al dry tons for all agricu	ultural land types)	
	Food crop	(subtota	al)		
	Feed crop	(subtota	al of agricultural land; to	otal for feed crops)
	Range la	and	_(subtotal for feed crop	s)	
	Pasture_		_(subtotal for feed crop	s)	
	Fiber crop	(subtotal)			
	Bulk to forest land	(total t	o forest land)		
	Bulk to public contact site	e(t	otal to public contact si	te)	
	Bulk to land reclamation s	site	(total to land reclamation	n sites)	
	Bulk to lawn or home gard	den	(total to lawns or home	gardens)	
	Sold or given away in a ba	ag or other contain	ner(total	al in bags or other	containers)
	Bulk sold or given away to	o another person	who prepares for applic	eation to the land_	(total)
	Bulk sold or given away to	o another party fo	or application to the land	d(to	otal)

4.	4. Total sold, given away, or applied to the land during the previous calendar year (dry tons)							
Sec	ction E:	Land A	Application Plan	18 (not required	l for EQ bios	olids unless oth	erwise spec	ified)
	You must attach a site specific land application plan for each site where you are presently applying or are proposing to apply biosolids to the land.							
1.	Are all lan	d applicat	ion sites currently p	lanned for use id	entified in an	attached site spe	ecific land ap	pplication plan?
	Yes	No	If no, a site specif	ic land application	on plan must b	be submitted before	ore biosolids	s can be applied
2.			General Land Applicate. <i>See Appendices</i>					
4.		y plan wi	ing a land application at this application at the standards.					
5.	Are any lo	cal permit	ts required for your	facility or for the	biosolids app	olication sites?		
	Yes	No						
If y	es, list here	or describ	e in attached Site Sp	pecific Land App	olication Plan((s):		
Sec	ction F:	Surfac	e Disposal of Bi	osolids				
1.	Do you ow		ate a surface disposa					
	Yes	No	u vaa u p					
			ber:					
	b. Unit loca							
	o. Omit ioca		reet or Route #			City	State	Zip Code
		Co	unty		Section	Township		Danga
			Ž			•		Range
			itude		Longitude_			
		Method	l of latitude/longitude					
			USGS	Field Survey	GPS	Other		

C.	that shows the site location.
d.	Amount of biosolids placed on the active biosolids unit per 365-day period (total dry tons):
e.	Amount of biosolids placed on the active biosolids unit over the life of the unit (total dry tons):
f.	Does the biosolids unit have a liner with a maximum hydraulic conductivity of 1E-7 cm/sec?
	Yes No
	If yes, describe the liner (or attach a description):
	Does the active biosolids unit have a leachate collection system?
	Yes No
	If yes, describe the leachate collection system (or attach a description). Also, describe the method used for leachate disposal and provide the numbers of any Federal, State, or local permit(s) for leachate disposal:
g.	Is the boundary of the active biosolids unit less than 150 meters from the property line of the surface disposal site?
	Yes No
	If yes, provide the actual distance in meters:
	Provide the following information:
	Remaining capacity of active biosolids unit (dry tons):
	Anticipated closure date for active biosolids unit, if known:
	Provide, with this application, a copy of any closure plan that has been developed for this active biosolids unit.
Secti	ion G: Facility Sampling Plan
. I	Does your facility have a Biosolids Sampling Plan?
	Yes No
a	. If yes, submit a copy with this application.
b	o. If no, explain how your sampling is done:
c.	No sampling is done.

Section H: Landfill Disposal of Biosolids 1. Do you currently dispose or do you plan to dispose of any biosolids on other than an emergency basis? Yes No If yes, Disposal is a temporary management option which will not exceed five years in length

2. Approximate quantities to be disposed (in dry tons)

Section I: Attachment Checklist

Please check boxes to indicate any attachments you are including with your permit application.

Land Application Plan(s):

Site Specific

General

Contingency Plan for EQ Biosolids

Disposal is planned as a long-term management option

Facility Biosolids Sampling Plan

Data

Maps

Treatment Plant Schematic

Temporary disposal plan

Other (list all):

Section J: Appendices

- 1. Contents of Site Specific Land Application Plans
- 2. Contents of General Land Application Plans

Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. In addition, I certify that I am aware of the terms and conditions of the Individual Permit for Biosolids Management and I agree to comply with those requirements."

Signature	Date
Title	Telephone number

Upon request of the permitting authority, you must submit any other information necessary to assess biosolids/septage use or disposal practices at your facility or identify appropriate permitting requirements.

Submitting Your Permit Application

You must submit your permit application to the following:

South Dakota Department of Environment and Natural Resources
Surface Water Quality Program
Joe Foss Building
523 East Capitol Avenue

Pierre, South Dakota 57501-3181

Attention:

Eric J. Thunstrom State Biosolids Coordinator (605) 773-3351; fax (605) 773-5286 E-mail: **Eric.Thunstrom@state.sd.us**

Appendix 1

Contents of Site Specific Land Application Plans

A site specific land application plan is required for every site where non-exceptional quality biosolids are applied to the land.

Site specific land application plan(s) must provide information necessary to determine if a site is appropriate for land application of biosolids. Your site specific land application plan(s) must provide a description of how the site(s) will be managed and, at a minimum, the following information:

- 1) Whether or not it is known or can be determined that biosolids containing pollutants in excess of the values in Table 3 of Appendix 1 of this permit have ever been applied to the site, and if so:
 - The date(s) when the biosolids were applied (if known);
 - The amount of biosolids applied (if known);
 - The concentration of pollutants in the biosolids (if known);
 - The area(s) of the site to which biosolids were applied (if known);
- 2) A discussion of the types of crops grown or expected to be grown, their intended end use (e.g. pasture grass for a feed crop, corn as a food crop), and the current distribution of crops on the site;
- 3) An explanation of how agronomic rates will be determined during the life of the site along with any currently available calculations. Whenever agronomic rates are determined or conditions change (i.e. a change in crops or agronomic rates) an update of the agronomic rate calculations must be filed with the department;
- 4) Method(s) of application:
- 5) Seasonal and daily timing of biosolids applications;
- 6) Any available data from soils, surface water, or groundwater monitoring collected from the site within the last two years, and any proposed new monitoring or continuation of existing monitoring programs;
- 7) The name of the county where biosolids will be applied;
- 8) A description of how biosolids will be stored at the site and also addressing related off-site storage;
- 9) Site map(s) showing:
 - The means of access to the facility and location by street address if applicable; a copy of the assessor's plat map(s) with the application area(s) clearly shown or the latitude and longitude of the approximate center of each land application site (with section, township, and range), and other means of identifying the location as appropriate and available;
 - The number of acres in the site:

- Location and extent of any wetlands on the site;
- A topographic relief of the application site and surrounding areas;
- Adjacent properties and uses and their zoning classification;
- Any seasonal surface water bodies located on the site or perennial surface water bodies within ½ mile of the sity;
- The location of any wells within ¼ mile of the site that are listed in public records or otherwise known to you, whether for domestic, irrigation, or other purposes;
- The width of buffer zones to surface waters, property boundaries, and other features requiring buffers;
- The presence and extent of any threatened or endangered species or related critical habitat:
- Any portion of the site that falls within a wellhead protection area;
- The location and size of any areas which will be used to store biosolids.
- 10) If the seasonal groundwater is three feet or less below the surface, a management plan describing how you will protect groundwater. For example, your plan may limit applications to the time of year when groundwater is receding to less than three feet and growing vegetation will use the nitrogen in the biosolids.
- 11) A description of how access to the site will be restricted (i.e. signs posted around the site or other approved method of access restriction).
- 12) Written approval of the landowner when bulk biosolids which do not meet standards for exceptional quality biosolids will be applied to the land.

Appendix 2

Contents of General Land Application Plans

A general land application plan is required when all biosolids sites are not identified in the permit application submitted for coverage under the South Dakota Surface Water Discharge Program Individual Permit for Biosolids Management.

- 1) Describe the geographical area covered by the plan, including the names of all counties where biosolids will be applied;
- 2) Identify site selection criteria;
- 3) Describe how sites will be managed;
- 4) Provide for advance notice to the department new or expanded land application sites. The advance notice must be at least 30 days, to allow time for the department to object prior to the biosolids applications.

STATE OF SOUTH DAKOTA

BEFORE THE SECRETARY OF

THE DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

	ATTER OF THE) CERTIFICATION OF
APPLICAT	ION OF) APPLICANT
STATE OF	(FACILITY NAME))
COUNTY (OF) SS)
application:	sworn upon oath hereby certify the f	e applicant in the above matter after following information in regard to this
South Dako	ta Codified Laws Section 1-40-27 provide	des:
including ar		permit filed pursuant to Titles 34A or 45, as feeding operation for authorization to eific finding that:
holder base		d to perform the obligations of a permit ny officer, director, partner or resident n has been made:
(a)	Has intentionally misrepresented a m	naterial fact in applying for a permit;
<i>(b)</i>	Has been convicted of a felony or oth	er crime involving moral turpitude;
(c)		lated environmental laws of any state or I significant and material environmental
(d)	Has had any permit revoked under th United States; or	ne environmental laws of any state or the
(e)	previous actions that the applicant i	gh clear and convincing evidence of lacks the necessary good character and e obligations imposed by law upon the

permit holder; or

(2) The application substantially duplicates an application by the same applicant denied within the past five years which denial has not been reversed by a court of competent jurisdiction. Nothing in this subdivision may be construed to prohibit an applicant from submitting a new application for a permit previously denied, if the new application represents a good faith attempt by the applicant to correct the deficiencies that served as the basis for the denial in the original application.

All applications filed pursuant to Titles 34A and 45 shall include a certification, sworn to under oath and signed by the applicant, that he is not disqualified by reason of this section from obtaining a permit. In the absence of evidence to the contrary, that certification shall constitute a prima facie showing of the suitability and qualification of the applicant. If at any point in the application review, recommendation or hearing process, the secretary finds the applicant has intentionally made any material misrepresentation of fact in regard to this certification, consideration of the application may be suspended and the application may be rejected as provided for under this section.

Applications rejected pursuant to this section constitute final agency action upon that application and may be appealed to circuit court as provided for under chapter 1-26."

Pursuant to SDCL 1-40-27, I certify that I have read the forgoing provision of state law, and that I am not disqualified by reason of that provision from obtaining the permit for which application has been made.

By signing this form, I certify that the information included on this form is, to the best of my knowledge and belief, true, accurate, and complete.

I declare and affirm under the penalties of perjury that this claim (petition, application, information) has been examined by me, and to the best of my knowledge and belief, is in all things true and correct.

Dated at	South Dakota this	day of	, 20
Applicant Name (Please Print)			
Applicant Signature			

PLEASE ATTACH SHEET DISCLOSING ALL FACTS PERTAINING TO SDCL 1-40-27 (1) (a) THROUGH (e).
ALL VIOLATIONS MUST BE DISCLOSED, BUT WILL NOT AUTOMATICALLY RESULT IN THE REJECTION OF AN APPLICATION.